



6AR5

POWER PENTODE

MINIATURE TYPE

6AR5

GENERAL DATA

Electrical:

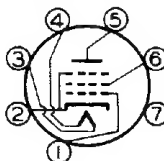
Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts
Current. 0.4 amp

Mechanical:

Mounting Position. Any
Maximum Overall Length. 2-5/8"
Maximum Seated Length. 2-3/8"
Length, Base Seat to Bulb Top (excluding tip). 2" \pm 3/32"
Maximum Diameter. 3/4"
Bulb T-5-1/2
Base Small-Button Miniature 7-Pin
Basing Designation for BOTTOM VIEW 6CC

Pin 1 - Grid No.1
Pin 2 - Cathode,
Grid No.3
Pin 3 - Heater
Pin 4 - Heater



Pin 5 - Plate
Pin 6 - Grid No.2
Pin 7 - No
Connection

AF POWER AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 250 max. volts
GRID-No.2 (SCREEN) VOLTAGE. 250 max. volts
PLATE DISSIPATION. 8.5 max. watts
GRID-No.2 DISSIPATION. 2.5 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode. 90 max. volts
Heater positive with respect to cathode. 90 max. volts

Typical Operation and Characteristics:

Plate Voltage.	250	250	volts
Grid-No.2 Voltage.	250	250	volts
Grid-No.1 (Control-Grid) Voltage.	-16.5	-18	volts
Peak AF Grid-No.1 Voltage.	16.5	18	volts
Zero-Signal Plate Current.	34	32	ma
Max.-Signal Plate Current.	35	33	ma
Zero-Signal Grid-No.2 Current.	5.7	5.5	ma
Max.-Signal Grid-No.2 Current.	10	10	ma
Plate Resistance (Approx.)	65000	68000	ohms
Transconductance	2400	2300	μ mhos
Load Resistance.	7000	7600	ohms
Total Harmonic Distortion.	7	11	%
Max.-Sig. Power Output	3.2	3.4	watts

(continued on next page)

MAY 20, 1949

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Maximum Circuit Values (for maximum rated conditions):

Grid-No.1-Circuit Resistance:

For fixed bias.	0.1 max.	megohm
For cathode bias.	0.5 max.	megohm

*Curves for the 6AR5 are the same as those
shown for type 6X6-GT.*

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